

ABSTRACT OF THE DISCLOSURE

5 A medium comprises an electrolyte wherein is dissolved at least an assembly of block copolymers characterised in that the block copolymers: are present in the electrolyte at a concentration level to provide the medium with the property of reversibly passing from a state of viscosity V1, obtained at a temperature T1, to a viscosity-state V2-greater by at least 100% than V1, obtained at a temperature T2, and comprise in their structure at least: two non-contiguous polymeric segments having in the electrolyte a lower critical solubility temperature (LCST) and having an average number of atoms along their skeleton more than 50; and a polymeric segment soluble in the electrolyte at temperatures T1 and T2. The invention also concerns the use of the medium for separating analytes.